



AT-8000S/48

Layer 2 Stackable Fast Ethernet Switch

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48-port stackable 10/100TX L2 switch with 2 active SFP bays (unpopulated) and 2 standby 10/100/1000T ports (RJ-45)

Overview

One of a series of stackable switches from Allied Telesis, the AT-8000S/48 provides high performance Layer 2 switching in an affordable fixed configuration platform. This switch offers 48 10/100 ports, two fixed 1 Gbps SFP slots plus two integrated stacking connectors that deliver a total of 4Gbps stacking bandwidth. The stacking capability integrated into this platform is configured as a resilient ring topology designed to provide high reliability and simplified management for higher port density applications.

Ideal Branch Office and Wiring Closet Connectivity

Powerful line rate performance and stackability make this switch ideal for branch offices or the wiring closet of larger offices. The state-of-the-art QoS capability of this product ensures reliable delivery of advanced network services such as voice while effectively controlling the continually increasing traffic needs found in today's networks.

Easy Access Networking

Featuring an industry standard CLI and Allied Telesis' intuitive yet fully featured WEB interface the advanced features of the 8000S/48 are accessible to a wide range of system administrators. The well known CLI and WEB interfaces significantly reduce learning time and minimize the cost of deployment.

Secure Management

Only authorized administrators can access the management interface of the AT-8000S series. Protocols such as SSL, SSH and SNMP v3 facilitate this protection of your network with local or remote connections.

Securing the Network Edge

To ensure the protection of your data, it is important to control access to your network. Protocols such as 802.1x port based authentication guarantee that only known users are connected to the network. Unknown users who physically connect can be isolated to a pre-determined part of your network offering guests such benefits as Internet access while ensuring the integrity of your private network

Key Features

Easy, Well Known Management

- Industry Standard CLI
- Simple intuitive, full features Allied Telesis Web Interface
- Secure encrypted WEB and CLI management with SSH v2 and SSL
- SNMP

Affordable Truly Stackable 10/100 Switching Platform

- Single IP address Stack management
- 4Gig Resilient Ring Stacking Architecture
- Across Stack Link Aggregation
- Across Stack VLAN configuration
- Across Stack Port Mirroring
- Redundant standby stack master

All the QoS Needed in the Wiring Closet for Today's Voice and Data Networking

- 8 Priorities assigned to 4 queues
- 802.1p for Layer 2 QoS
- DSCP (Diffserv) for Layer 3 QoS
- 802.1p to DSCP remarking traffic ready for transport to the Layer 3 core of the network

Securing the Network at its Most Vulnerable Point

- 802.1x and RADIUS network login: for advanced control of user authentication and accountability
- Guest VLAN: to ensure visitors or unauthorized users connect only to services defined by IT. E.g. Internet
- TACACS+: for ease of management security administration

Allied Telesis www.alliedtelesis.com

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System Configuration

W x D x H 440mm x 257mm x 43.2mm (17.32" x 10.11" x 1.70")

Weight 3.38kg (7.45lb)

Mounting 19" rack-mountable hardware

included

System Capacity

64MB RAM 16MB Flash Memory 400Mhz CPU Up to 4,096 YLAN ID 8,000 MAC address

Performance

Wire speed switching on all Ethernet ports 14,880pps for 10Mbps Ethernet 148,800pps for 100Mbps fast Ethernet 1,488,000pps for 1000Mbps Gigabit Ethernet

Ethernet throughput 6.8Gbps

Chipset switching capacity 17.6Gbps

MTBF 314.322 hours

Store and forward mode Non blocking switch fabric

Auto-MDI/MDI-X

Port speed

10/100-TX RJ-45 10/100/1000TX RJ-45 100-FX, 1000-SX, 1000-LX SFP slot

RS232 DB9 pin, male port

Internal power supply and fan

Interface Standards

802.3	10Base-T & 10Base-FL
802.3u	100Base-TX & 100base-FX
002.2-	I O O Doco CV

General Standards

802.1d Bridging

802.3x BackPressure/ Flow Control

Redundancy Standards

802.ID	Spanning Tree Protocol
802.IW	Rapid Spanning Tree
802.ls	Multiple Spanning Tree
802.3ad	LACP Link Aggregation

(with up to 8 members per group and up to 8 groups per device)

Static port trunk

Quality of Services (QoS)

QoS in layer 2 (802.1p compliant Class of Service)
Traffic prioritization using 802.1p, ToS, DSCP fields
Map 802.1p priorities to CoS queues to prioritize traffic
at Egress.

Strict Scheduling and Weighted Round Robin

VLANs

IEEE 802.1Q VLAN Tagging Up to 256 VLANs Port-based VLANs MAC-based VLANs Private VLANs

GARP VLAN Registration Protocol (GVRP)

Multicast Standards

RFC1112	IGMP snooping (ver. I)
RFC2236	IGMP snooping (ver. 2)
RFC 3376	IGMP snooping (ver.3)	*

^{*} Future Release

Management and Monitoring

WEB, CLI, Serial	
RFC 1157	SNMPv1/v2c
RFC 2570	SNMPv3
RFC1213	MIB-II
RFC 1215	TRAP MIB
RFC1493	Bridge MIB
RFC 2863	Interfaces group MIB
RFC 1643	Ethernet like MIB
RFC 1757	RMON 4 groups:
	Stats, History, Alarms, Event
RFC 2674	802.IQ MIB
RFC 1866	HTML
RFC 2068	HTTP
RFC 854	Telnet
RFC 783	TFTP

IP address allocation

RFC 951/ RFC 1542 BootP/ DHCP

Manual

RFC 2030 SNTP, Simple Network Time Protocol

Syslog Event
Dual Software Images

Stacking
Up to 6 units
Single chip appearance
Single IP management
Backup master
Full duplex link with 2Gbp

Full duplex link with 2Gbps performance

Trunking across stack
Port mirroring across stack
VLAN across stack

Security

Management Security: user name and password protection

SSHv2 for Telnet management SSLv3 for WEB management RFC 1492 TACACS+

RFC 2138 RADIUS Authentication

IEEE 802.1x Port-based network access control

Guest VLANs

Fault Protection

Broadcast Storm Control

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Power Characteristics

Voltage input 100- 240VAC
Voltage output 12VDC
Current 1.5A
Power consumption 54W

Heat dissipation 184.41 BTU/hour

Clock Frequency 166MHz

Environmental Specifications

Operating Temp 0°C to 45°C (32F to 113F)
Storage Temp -25°C to 70°C (-13F to 158F)
Relative Humidity 10% to 90% non-condensing
Storage Humidity 5% to 95% non-condensing
Operating Altitude maximum 3,000m (9,843ft)

Electrical/ Mechanical Approvals

Safety UL 1950 (UL/cUL), EN60950 (TUV) EMI FCC Class A, EN55022 Class A,

VCCI Class A, C-Tick, EN61000-3-2,

EN61000-3-3

Immunity EN55024

RoHS compliant

Package Description

One AT-8000S/48 switch

Power cord AC Rackmount kit

Rubber feet for desktop installation

RS232 management cable

Stacking cable

Install guide and user guide in CD

Country of Origin

China

Ordering Information

AT-8000S/48-xx

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Where xx = 10 for U.S. power cord

20 for no power cord

30 for U.K. power cord

40 for Australia power cord

50 for Europe power cord

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